

Claims

[c1] WHAT IS CLAIMED IS:

1. A feed device for stacks of paper or plastic material, the feed device comprising:
at least one transport unit comprising a supporting member for the stack and at least one transport element; a separating unit comprising at least one rotatably driven feed drum;
wherein the at least one transport unit transports the stack to the separating unit;
wherein the at least one transport unit is pretensioned in a transport direction toward the at least one feed drum such that the stack rests with pretension against the feed drum.

[c2] 2. The feed device according to claim 1, further comprising at least one spring for pretensioning the at least one transport unit.

[c3] 3. The feed device according to claim 2, further comprising an axle and at least one bearing slidably mounted on the axle, wherein the at least one transport unit is connected to the at least one bearing and guided by the at least one bearing on the axle.

- [c4] 4. The feed device according to claim 3, further comprising an abutment mounted on the axle, wherein the at least one spring rests against the abutment.
- [c5] 5. The feed device according to claim 3, wherein the spring is a pressure spring surrounding the axle.
- [c6] 6. The feed device according to claim 1, further comprising at least one support unit for the stack resting on the supporting member.
- [c7] 7. The feed device according to claim 6, wherein the at least one support unit has at least one bearing guided on an axle.
- [c8] 8. The feed device according to claim 6, wherein the support unit has at least one support element that rests against a side of the stack facing away from the feed drum.
- [c9] 9. The feed device according to claim 6, wherein the support unit is coupled to the at least one transport element of the at least one transport unit.
- [c10] 10. The feed device according to claim 1, wherein the at least one transport element is an endless circulating belt.
- [c11] 11. The feed device according to claim 1, wherein the at

least one transport element is supported on the supporting member.

- [c12] 12. The feed device according to claim 1, further comprising at least one sensor, wherein the at least one transport element is coupled to the at least one sensor that provides a switching signal for driving the at least one transport element.
- [c13] 13. The feed device according to claim 12, wherein the at least one sensor is a light barrier.
- [c14] 14. The feed device according to claim 1, wherein the feed drum is connected to a vacuum source.
- [c15] 15. The feed device according to claim 1, wherein the feed drum has passages.
- [c16] 16. The feed device according to claim 1, wherein the supporting member is a slide movable in the transport direction of the at least one transport element.